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ATTORNEY DOCKET NO. FIRST NAMED INVENTOR CONFIRMATION NO. APPLICATION NO. FILING DATE 10/691,330 10/22/2003 Istvan Boldogh 265.00390101 EXAMINER 26813 7590 06/08/2006 MUETING, RAASCH & GEBHARDT, P.A. KAM, CHIH MIN P.O. BOX 581415 ART UNIT PAPER NUMBER MINNEAPOLIS, MN 55458 1656

DATE MAILED: 06/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

1						
•		Application No	<b>).</b>	Applicant(s)		
		10/691,330		BOLDOGH ET AL.		
	Office Action Summary	Examiner		Art Unit		
		Chih-Min Kam		1656		
Period fo	The MAILING DATE of this communication or Reply	appears on the cove	er sheet with the c	orrespondence add	ress	
WHIC - External after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by steply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS C R 1.136(a). In no event, how riod will apply and will expire atute, cause the application	OMMUNICATION wever, may a reply be time e SIX (6) MONTHS from to become ABANDONED	I. lely filed the mailing date of this con D (35 U.S.C. § 133).		
Status						
1)⊠	Responsive to communication(s) filed on 2	0 March 2006.				
·	) This action is <b>FINAL</b> . 2b) This action is non-final.					
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠ Claim(s) <u>1-6,8 and 12-15</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5)☐ Claim(s) is/are allowed.					
6)⊠	∑ Claim(s) <u>1-6,8 and 12-15</u> is/are rejected.					
7)	7) Claim(s) is/are objected to.					
8)[	8) Claim(s) are subject to restriction and/or election requirement.					
Applicati	on Papers					
9)□	The specification is objected to by the Exan	niner				
10)⊠ The drawing(s) filed on <u>22 October 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) □ All b) □ Some * c) □ None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment	(s)					
1) Notice	e of References Cited (PTO-892)	4) 🗌	Interview Summary (	PTO-413)		
	e of Draftsperson's Patent Drawing Review (PTO-948)	_	Paper No(s)/Mail Dat	te	150)	
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB No(s)/Mail Date <u>3/20/06</u> .		Other:	atent Application (PTO-1	192)	

#### **DETAILED ACTION**

## Status of the Claims

1. Claims 1-6, 8 and 12-15 are pending.

Applicants' amendment and Declaration of Attorney Nancy Johnson filed March 20, 2006 are acknowledged. Applicants' response and Declaration of Nancy Johnson have been fully considered. Claim 1 has been amended, and claims 7 and 9-11 have been cancelled. Therefore, claims 1-6, 8 and 12-15 are examined.

## Withdrawn Informalities

2. The previous objection to the specification is withdrawn in view of applicants' amendment to the claim, and applicant's response at page 7 in the amendment filed March 20, 2006.

## Withdrawn Claim Rejections - 35 USC § 112

3. The previous rejection of claims 7 and 9-11, under 35 U.S.C. 112, second paragraph, is withdrawn in view of applicants' cancellation of the claim, and applicants' response at page 8 in the amendment filed March 20, 2006.

#### Withdrawn Claim Rejections - 35 USC § 102

4. The previous rejection of claims 1-15, under 35 U.S.C. 102(e) as anticipated by Stanton et al. (U.S. Patent 6,903,068, filing date: August 17, 2000), is withdrawn in view of Declaration of Attorney Nancy Johnson and Exhibit A (documents related to Application No. 09/641,801), applicants' cancellation of the claim, and applicants' response at page 8 in the amendment filed March 20, 2006.

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U.S. Patent 6,903,068 (U.S. Patent Application No. 09/641,801) as published on June 7, 2005 has erroneous specification as compared to the specification of Application No. 09/641,801 as shown in the Declaration of Attorney Nancy Johnson and Exhibit A, and the published U.S. Patent 6,903,068 has the specification of Application No. 10/691,157, which has an effective filing date of 10/23/03 that is later than the effective filing date of instant application (10/22/03). Therefore, the rejection is withdrawn.

## New Claim Rejections-Obviousness Type Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 1-6, 8 and 12-15 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-8 of U. S. Patent 6,500,798. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1-6, 8 and 12-15 in the instant application disclose a method for inhibiting apoptosis or a method for protecting against DNA damage in a cell, the method comprising contacting the cell with an apoptosis inhibitor selected from the group consisting of colostrinin, a constituent peptide of colostrinin (SEQ ID NO:1-8) and combination thereof, and the specification indicates UV-irradiation is a major cause of oxidative stress in the cells and may induce apoptosis

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(Example 8; pages 28-29). This is obvious in view of claims 1-8 of the patent which disclose a method for modulating the oxidative stress level in a cell, the method comprising contacting the cell with an oxidative stress regulator under conditions effective to decrease the level of an oxidizing species in the cell in response to an oxidative stress, wherein the oxidative stress regulator is colostrinin, a constituent peptide of colostrinin (SEQ ID NO:1-34), an active analog of a constituent peptide of colostrinin (SEQ ID NO:1-34) and combination thereof. Both sets of claims are directed to a method for inhibiting apoptosis or a method for modulating the oxidative stress level in a cell by contacting the cell with an effective amount of colostrinin, a constituent peptide of colostrinin and combination thereof in response to apoptosis or an oxidative stress such as UV-irradiation. Therefore, claims 1-6, 8 and 12-15 in instant application and claims 1-8 of the patent are obvious variations of a method for inhibiting apoptosis or a method for modulating the oxidative stress level in a cell by contacting the cell with an effective amount of colostrinin, a constituent peptide of colostrinin and combination thereof in response to apoptosis or an oxidative stress.

6. Claims 1-6, 8 and 12-15 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-10 of U. S. Patent 6,903,068.

Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1-6, 8 and 12-15 in the instant application disclose a method for inhibiting apoptosis or a method for protecting against DNA damage in a cell, the method comprising contacting the cell with an apoptosis inhibitor selected from the group consisting of colostrinin, a constituent peptide of colostrinin (SEQ ID NO:1-8) and combination thereof, and the specification indicates colostrinin induces a variety of cytokines in leukocytes or modulates

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cytokine production (page 8, lines 11-15; page 22, lines 32-33; page 29, lines 24-30). This is obvious in view of claims 1-10 of the patent which disclose a method for inducing a cytokine or a method for modulating an immune response in a cell, the method comprising contacting the cell with an immunological regulator under conditions effective to induce a cytokine, wherein the immunological regulator is colostrinin, a constituent peptide of colostrinin (SEQ ID NO:1-8 and 34), an active analog of a constituent peptide of colostrinin (SEQ ID NO:1-8 and 34) and combination thereof. Both sets of claims are directed to a method for inhibiting apoptosis or a method for inducing a cytokine in a cell by contacting the cell with an effective amount of colostrinin, a constituent peptide of colostrinin and combination thereof. Therefore, claims 1-6, 8 and 12-15 in instant application and claims 1-10 of the patent are obvious variations of a method for inhibiting apoptosis or a method for inducing a cytokine in a cell by contacting the cell with an effective amount of colostrinin, a constituent peptide of colostrinin and combination thereof.

7. Claims 1-6, 8 and 12-15 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-7 of co-pending application 10/691,157 (based on allowable claims filed April 25, 2006). Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1-6, 8 and 12-15 in the instant application disclose a method for inhibiting apoptosis or a method for protecting against DNA damage in a cell, the method comprising contacting the cell with an apoptosis inhibitor selected from the group consisting of colostrinin, a constituent peptide of colostrinin (SEQ ID NO:1-8) and combination thereof, and the specification indicates 4-HNE (4-hydroxynonenal) induce apoptosis (Example 7; page 28). This is obvious in view of

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claims 1-7 of the patent which disclose a method for modulating an intracellular signaling molecule in a cell such as reducing 4-hydroxynonenal (4HNE)-protein adduct formation, inhibiting 4HNE-mediated glutathione depleting, inhibiting 4HNE-induced activation of p53 protein, inhibiting 4HNE-induced activation of c-Jun NH2-terminal kinases, or a method for down regulating 4HNE-mediated oxidative damage associated with lipid peroxidation in a cell, the method comprising contacting the cell with an effective amount of a regulator, wherein the regulator is colostrinin, a constituent peptide of colostrinin (SEQ ID NO:1-8) and combination thereof. Both sets of claims are directed to a method for inhibiting apoptosis or a method for modulating an intracellular signaling molecule in a cell by contacting the cell with an effective amount of colostrinin, a constituent peptide of colostrinin and combination thereof. Therefore, claims 1-6, 8 and 12-15 in instant application and claims 1-7 of the co-pending application are obvious variations of a method for inhibiting apoptosis or a method for modulating an intracellular signaling molecule in a cell by contacting the cell with an effective amount of colostrinin, a constituent peptide of colostrinin and combination thereof.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

#### **Conclusions**

#### 8. No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Min Kam whose telephone number is (571) 272-0948. The examiner can normally be reached on 8.00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kathleen Kerr can be reached at 571-272-0931. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chi/-

Chih-Min Kam, Ph. D.

Patent Examiner

CHIHMIN KAM TENT EXAMINER

**CMK** 

June 5, 2006